

Town of Salem Mitigation Future Projects

project type

Mitigation - Infrastructure

project name

department

Total cost

Wheeler Dam Improvements

Public Works

\$1,500,000.00

Project Description

The dam last received a face lift in 1986. Arlington Pond functions as the water dept reservoir in the winter and an important recreational facility in the summer. Work will include concrete work and upgrades to the 3 major gates. NHDES Dam Division does yearly inspections of all the states dam. Wheeler dam is classified as a high hazard dam because of the potential threat to health and safety in the event of a breach. These inspections along with our own assessment have lead to this rehabilitation project. The Town has utilized HTE as our consultant for this project.

Project Application

The continued proactive maintenance of Wheeler Dam will reduce the chances of any impacts associated with Dam failures as a result of failing infrastructure. This is part of a continued maintenance program designed to reduce the possible losses associated with high hazard infrastructure.

3	3	3	3	3	3	3		21	Total 42
Social	Tech	Admin	Politic	Legal	Econ	Environ			
3	3	3	3	3	3	3	3	21	
disaster	contribute	environment	regulations	historic	goals	implemented			

Water System Security Upgrades

Public Works

\$100,000.00

Project Description

Subsequent to 911, the Public Health Security and Bio-terrorism Preparedness and Response Act of 2002 mandated that water utilities conduct a "Vulnerability Assessment" and update their "Emergency Response Plan" (VA and ERP). Our VA has been completed and outlines many necessary improvements to our security system. Although the report is confidential and will not be released, each years projects and upgrades will be present for consideration.

Project Application

The project addresses the Public Health Security and Bio-terrorism Preparedness and Response Act of 2002.

3	3	3	3	3	3	2		20	Total 38
Social	Tech	Admin	Politic	Legal	Econ	Environ			
3	3	2	3	1	3	3		18	
disaster	contribute	environment	regulations	historic	goals	implemented			

Bridge Engineering Program

Public Works

\$75,000.00

Project Description

To evaluate our bridges for possible replacement and upgrades; many are constructed of stone with poured in-place concrete. All state and municipally owned bridges in New Hampshire are inspected at regular intervals based on the ownership and the condition of the bridge. There is the potential for NHDOT Bridge Aid funding. State Aid Bridge (SAB): Established under RSA 234, about \$ 6.8 million/year is designated to be spent under this program for construction or reconstruction of structures on Class IV and Class V highways as well as municipally-maintained bridges on Class II highways. Structures having a clear span of ten (10) feet or greater qualify for State Aid Bridge funds. Of the total project funds, up to 80% of the funds may be provided by the State.

Project Application

This project is tied to the drainage master plan project. The intention is to coordinate both bridge and drainage programs toward continued maintenance, and improvements program as a proactive step to mitigate possible failures of bridges during flooding disasters.

3	3	3	3	3	3	2		20	Total
Social	Tech	Admin	Politic	Legal	Econ	Environ			
3	3	2	3	2	3	3		19	39
disaster	contribute	environment	regulations	historic	goals	implemented			

Source Water Investigation

\$50,000.00

Project Description

This ongoing investigation is to identify the most cost effective sources of water for the system's expansion. Investigations have included both shallow aquifer and deep bedrock sources and presently focuses on the potential direct transfer of water from Arlington Pond to Canobie Lake during the winter months.

Project Application

3	3	3	3	3	3	3		21	Total
Social	Tech	Admin	Politic	Legal	Econ	Environ			
3	3	3	3	1	3	2		18	39
disaster	contribute	environment	regulations	historic	goals	implemented			

Route 28 Drainage Design Project

\$72,000.00

Project Description

This project involves the complete design to the point of bid specifications of drainage improvements from the Al's Trailer park area across Route 28 and downstream toward Rockingham Boulevard. The project is part of a three phase improvement involving Main Street, Al's Trailer Park and this project. The project will provide definitive plans and cost estimates for the eventual submittal for future drainage improvements across route 28 and down to Rockingham Boulevard. The project is crucial to eliminate and mitigate a condition which causes cross road flooding during period of higher rainfall.

Project Application

This project will directly improve a poor drainage condition that affects a major arterial roadway serving the primary business area of the region. The flooding caused by the underperforming culverts causes sheet flow across route 28, at times requiring a rerouting of traffic.

3	3	3	2	2	3	3	19	Total
Social	Tech	Admin	Politic	Legal	Econ	Environ		
3	3	3	3	2	3	2	19	38
disaster	contribute	environment	regulations	historic	goals	implemented		

South Station 3 Addition/Renovation

\$30,000.00

Project Description

Given the current and projected use of the building a number of design deficiencies and deferred maintenance issues were identified in the 2003 Fire Station Facilities Study. The building was built in 1974. Modest renovations have been made to the original structure, including adding a Ply movement vehicle exhaust system and removing underground fuel tanks, both gas and oil. The building contains 4,921 gross square feet of space. here were no plans or accommodations made to operate an ambulance out of the facility. As a consequence there are not adequate facilities to decontaminate ambulance equipment or store ambulance supplies. There are other concerns including general lack of storage, turnout gear storage, and the overall building layout that hinder the efficient delivery of fire department services.

Project Application

3	3	3	2	3	3	2	19	Total
Social	Tech	Admin	Politic	Legal	Econ	Environ		
3	3	2	3	1	3	1	16	35
disaster	contribute	environment	regulations	historic	goals	implemented		

Central/West Fire Station Construction

\$7,000,000.00

Project Description

The 2003 Fire Station Facilities Study identified two possible scenarios to address the future fire safety needs of the community. One envisioned four station (North, South, East, and West) the second was three stations (North, South, and Central/West). This project will construct the Central/West station or the West Fire Station as identified in the study. A recent response analysis indicated that each of the stations 1,2, and 3 respond to the West area of Town. This out of district response decrease the availability for apparatus and personnel to adequately serve each district. The central station was constructed in 1967. In 1984 some renovations were made to a small portion of the building and a small two-story addition was constructed. A Ply movement vehicle exhaust system was added and some attempts, unsuccessful, were made to improve the apparatus bay floor drainage. The building is 12,360 gross square feet of space. The building lacks the necessary space for current equipment and command staffing. Further, the space needs are substantially lacking in the areas of emergency operations center. Due to commercial and residential development west of Route 28, the community for the last twenty years has been wrestling with the need for a West Salem Station.

Project Application

3	3	3	2	3	3	2			
Social	Tech	Admin	Politic	Legal	Econ	Environ		19	
3	3	2	3	1	3	1			
disaster	contribute	environment	regulations	historic	goals	implemented		16	
								Total	35

project type

Prevention - Administration

project name

department

Total cost

Weather Station Program

\$50,000.00

Project Description

This program is for the purchase and installation of a weather station at the emergency operations center to provide real-time local weather information on a continuous bases.

Project Application

This information would be critical for the mitigation of hazardous material, chemical, biological, radiation or nuclear explosion events.

3	3	3	3	3	2	2	19	Total
Social	Tech	Admin	Politic	Legal	Econ	Environ		
3	3	2	3	1	3	3	18	37
disaster	contribute	environment	regulations	historic	goals	implemented		

Municipal AS 400 Computer Replacement

Information Technology

\$310,000.00

Project Description

The current computer system was purchased in July of 1992. The hardware and operating system is so old that the manufacturer has discontinued support for this model. This requires the town to enlist the aid of a third-party vendor for support at a cost of \$7,608 per year for maintenance. Although a strong system in its day, several pieces of hardware have had to be replaced over the last few years and it is certainly beginning to show evidence of its age. The cost for support of this machine will only increase every year as the hardware grows more obsolete. In addition to its age, the town has also exceeded options for any upgrades that may have been possible with this model. There is no other option except replacement. Beyond the technical issues are the customer service obligations of the IT Department. Currently the AS/400 limits the ability to effectively facilitate access to information in an effective manner that allows research and digital interaction with government. This project will also include areas current system doesn't cover i.e. HR, Health, Recreation, Capital projects, Community Development, Citizen Reponse Tracking, Work Orders, Planning & Zoning, with the potential for integration with GIS & E-Gov.

Project Application

The communication and storing of vital asset information, mapping and utilities software, property information are allow crucial to the management and assessment of hazard impacts. The need for a update of the system is crucial to incorporate new technologies with a greater capacity for addressing hazard mitigation needs.

2	3	3	3	3	3	3		20	Total 38
Social	Tech	Admin	Politic	Legal	Econ	Environ			
3	3	3	2	1	3	3		18	
disaster	contribute	environment	regulations	historic	goals	implemented			

project type

Response - Coordination

project name

department

Total cost

Fire Department Equipment Replacement Program

Fire

\$0.00

Project Description

This program is a continuous program design to allow for the scheduled replacement of the fire department emergency response fleet. Although the program has no specific end date the replacement schedule is revisited and reevaluated every five years to determine its continued appropriateness.

Project Application

3	3	3	3	3	2	2		19	Total
Social	Tech	Admin	Politic	Legal	Econ	Environ			
1	3	3	3	3	2	3	3	18	37
disaster	contribute	environment	regulations	historic	goals	implemented			

Fiber Optic Project

\$0.00

Project Description

Install fiberoptic cable to all three fire stations (?all town buildings) for the purpose of voice and data communications

Project Application

2	3	3	3	3	3	3		20	Total
Social	Tech	Admin	Politic	Legal	Econ	Environ			
3	3	3	2	1	3	3		18	38
disaster	contribute	environment	regulations	historic	goals	implemented			

Police AS 400 Replacement

\$235,000.00

Project Description

Current system does not sufficiently support demands. Wasn't purchased as a complete pkg. Need something to involve CAD, Fleet maint., scheduling, Admin, Records, Reports, CSU, JSU, Evidence, Booking, GIS.

Project Application

2	3	3	3	3	3	3		20	Total
Social	Tech	Admin	Politic	Legal	Econ	Environ			
3	3	3	2	1	3	3		18	38
disaster	contribute	environment	regulations	historic	goals	implemented			

Public Safety GPS

Public Safety

\$0.00

Project Description

Through the use of GPS technologies both Fire and Police Departments can effectively allocate resources through the use of Global Positioning Systems. The focus of the technology will be enhancing the safety of the responders by providing monitoring of their location and status. Both Fire and Police will have capabilities to track the responders at the respective command centers.

Project Application

Through the use of GPS the capability to allocate equipment and manpower resources will be enhanced. In addition GPS will provide the capabilities to ensure responder safety by monitoring activity.

2	3	3	2	3	2	2		17	Total
Social	Tech	Admin	Politic	Legal	Econ	Environ			
2	3	2	2	1	3	2		15	32
disaster	contribute	environment	regulations	historic	goals	implemented			

Mass Casualty Plan

Fire

\$0.00

Project Description

This plan describes the steps necessary to evaluate, categorize, treat and transport casualties from an emergency scene wherein the number of casualties exceeds the available transport capability of the fire department ambulance service.

Project Application

This plan is a controlled document.

3	3	3	3	3	3	3		21	Total
Social	Tech	Admin	Politic	Legal	Econ	Environ			
3	3	3	3	1	3	3		19	40
disaster	contribute	environment	regulations	historic	goals	implemented			

Portable Radio Interoperability Coordination

\$0.00

Project Description Interpreability of mobil portbale radios.

Project Application

3	3	3	2	3	2	2	18	Total 35
Social	Tech	Admin	Politic	Legal	Econ	Environ		
3	3	2	3	1	3	2	17	
disaster	contribute	environment	regulations	historic	goals	implemented		

Public Works GPS

Public Works

\$50,000.00

Project Description The installation of Global Positioning Systems (GPS) units in DPW vehicles which will work in conjunction with the vehicle mounted town radio system. The units utilize the radio system infrastructure and is not dependent on other vendors. This will allow for vocational information of those vehicles. Of particular interest is emergency operations; winter weather operations and flood events. GPS Tracking is an excellent way for fleet owners and managers to monitor their trucks, vehicles, and equipment. GPS (Global Positioning System) technology is becoming the standard in fleet management and allows fleet managers the ability to conduct tracking affordably and efficiently. Vehicle Tracking will allow you to monitor your employees and vehicles with assurance and confidence. Knowing where they go and utilizing GPS in your vehicles and trucks will allow you to get the facts you need.

Project Application To track DPW vehicles during winter storms and flooding toward providing enhanced resource allocation.

2	3	3	2	3	2	2	17	Total 32
Social	Tech	Admin	Politic	Legal	Econ	Environ		
2	3	2	2	1	3	2	15	
disaster	contribute	environment	regulations	historic	goals	implemented		

Police Station Building Project

Police

\$7,500,000.00

Project Description

The current police structure was built over 30 years ago. The facility and its site are not suitable for expansion and or renovations. After an extensive series of feasibility studies and programs the Board of Selectmen appointed a review committee, the Police Building Review Committee (PBRC) to assess the proposals by the department. The original project was proposed for 11.7 million with 38,000 square feet. The PBRC working closely with the police department created a suitable project for a total project cost of 7.8 million at 28,800 square feet.

Project Application

Police facilities combined with manpower and equipment is a critical component of the public safety emergency response. The current facility does not provide the necessary facilities and room to properly address emergency response.

3	3	3	2	3	3	2		19	Total
Social	Tech	Admin	Politic	Legal	Econ	Environ			
3	3	2	3	1	3	1		16	35
disaster	contribute	environment	regulations	historic	goals	implemented			

Cable TV Emergency Notification System Override

Public Safety

\$0.00

Project Description

This program allows the Emergency Operations Center to override the scheduled broadcasting program of the local government access cable television channel to made public information announces during emergency situations.

Project Application

3	3	3	3	3	3	3		21	Total
Social	Tech	Admin	Politic	Legal	Econ	Environ			
3	3	3	3	1	3	3		19	40
disaster	contribute	environment	regulations	historic	goals	implemented			